

Application No.	Applicant(s)	
10/643.675	GONG ET AL.	
Examiner	Art Unit	
Craig A. Thompson	2813	
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7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
6. Interview Summ Paper No./Mail 8), 7. Examiner's Ame	ary (PTO-413), Date ndment/Comment	
	Examiner Craig A. Thompson ars on the cover sheet with the OR REMAINS) CLOSED in this or other appropriate communication is subjected and MPEP 1308. Examiner. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application Notes and the application of this communication to file a received in the suments have been received in the series of this application. Itted. Note the attached EXAMIN is reason(s) why the oath or decide be submitted. On's Patent Drawing Review (Property of the submitted. On's Patent Drawing Review (Property of the submitted. On's Patent Drawing Review (Property of the submitted. The submitted of the submitted of the submitted of the submitted. The submitted of the sub	Examiner Craig A. Thompson 2813 Art Unit Craig A. Thompson 2813 Art Unit Craig A. Thompson 2813 CR REMAINS) CLOSED in this application. If not included or other appropriate communication will be mailed in due course. THIS GHTS. This application is subject to withdrawal from issue at the initiation and MPEP 1308. Examiner. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No numents have been received in this national stage application from the service of this application. ted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF is reason(s) why the oath or declaration is deficient. the submitted. on's Patent Drawing Review (PTO-948) attached Amendment / Comment or in the Office action of the header according to 37 CFR 1.121(d). Sit of BIOLOGICAL MATERIAL must be submitted. Note the eleader according to 37 CFR 1.121(d). If the DEPOSIT OF BIOLOGICAL MATERIAL. 5. ☐ Notice of Informal Patent Application (PTO-152) 8. ☐ Interview Summary (PTO-413), Paper No /Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☑ Examiner's Statement of Reasons for Allowance

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: prior art of record does not describe or suggest applicants' invention set forth in claims 1-11, a method for fabricating a transistor having a fully silicided gate wherein a substrate is provided with a semi-finished transistor formed there, wherein the semi-finished transistor comprises a gate dielectric, a silicon gate on the dielectric, a gap layer on the gate, a spacer on sidewalls of the gate and source drain regions in the substrate beside the gate, raised source/drain regions are formed, the cap layer is removed, and a full silicidation process is performed to fully silicide the silicon gate. Similarly, prior art of record does not describe or suggest the invention of claims 12-20, a method for fabricating a transistor having a fully silicided gate wherein, a gate dielectric film, a silicon layer and anti-reflection layer are sequentially formed and patterned wherein the silicon laver is patterned into a silicon gate, a source/drain extension is formed, a spacer on sidewalls of the gate structure is formed, a selective epitaxial growth process is performed to form a raised source/drain region, the anti-reflection layer is removed and a full silicidation process is performed to full silicide the silicon gate and simultaneously to form a silicide contact from the raised source/drain, in the context of the recited process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Cited Prior Art

The prior art made of record and not relied upon is considered pertinent to

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applicant's disclosure. Yu et al. (U.S. Patent No. 6,853,020) teaches a method for

forming a double-gate semiconductor device that may be fully silicided (column 1, lines

40-44). One embodiment includes a FinFET with raised source/drain regions (column

6, lines 51-59).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Craig A. Thompson whose telephone number is

(571)272-1699. The examiner can normally be reached on Monday-Friday 8:00 am -

4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Carl Whitehead, Jr. can be reached on (571)272-1702. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Craig A. Thompson

Crais a. Thom

Primary Examiner
Art Unit 2813

22 February 2005